

# US ATLAS Computing Project

## WBS Summary Cost Estimates

Funding Source: All

Funding Type: Project

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Institutions: All

WBS Number	Description	Base Cost (k\$)	Cont Cost (k\$)	Cont %	Total Cost (k\$)	Labor (k\$)	Matls (k\$)	FTEs Project	FTEs Other
2	<b>US ATLAS Computing</b>	17429	0	0	17429	15902	1527	104.5	79.8
2.2	<b>Software Projects</b>	17429	0	0	17429	15902	1527	104.5	79.8
2.2.1	<b>Core Software</b>	12939	0	0	12939	12939	0	81.5	10.5
2.2.1.1	Architecture	870	0	0	870	870	0	4.2	0.0
2.2.1.2	Control Framework	4550	0	0	4550	4550	0	28.1	4.0
2.2.1.3	Database	6823	0	0	6823	6823	0	44.4	1.0
2.2.1.4	Event Model	695	0	0	695	695	0	4.8	3.1
2.2.1.5	Detector description	0	0	0	0	0	0	0.0	2.4
2.2.1.6	Calibration Infrastructure	0	0	0	0	0	0	0.0	0.0
2.2.1.7	Graphics	0	0	0	0	0	0	0.0	0.0
2.2.1.8	Analysis Tools	0	0	0	0	0	0	0.0	0.0
2.2.2	<b>Simulation and Reconstruction</b>	1848	0	0	1848	1848	0	15.3	67.7
2.2.2.1	General Simulation and Reconstruction Software	820	0	0	820	820	0	5.7	1.2
2.2.2.2	Inner Tracker software	0	0	0	0	0	0	0.0	6.0
2.2.2.3	Transition Radiation Tracker software	0	0	0	0	0	0	0.0	6.0
2.2.2.4	Liquid Argon Calorimeter software	594	0	0	594	594	0	6.6	26.5
2.2.2.5	Tile calorimeter software	434	0	0	434	434	0	3.0	7.8
2.2.2.6	Muon spectrometer software	0	0	0	0	0	0	0.0	19.6

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2.2.2.7	Trigger/DAQ software	0	0	0	0	0	0	0.0	0.0
2.2.2.8	Magnetic field software	0	0	0	0	0	0	0.0	0.0
2.2.2.9	Background studies	0	0	0	0	0	0	0.0	0.0
2.2.2.10	Global reconstruction	0	0	0	0	0	0	0.0	0.6
<b>2.2.3</b>	<b>Collaborative tools</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
2.2.3.1	Conferencing tools	0	0	0	0	0	0	0.0	0.0
2.2.3.2	Electronic notebook tools	0	0	0	0	0	0	0.0	0.0
2.2.3.3	Web based lecture/presentation tools	0	0	0	0	0	0	0.0	0.0
2.2.3.4	Web based information systems	0	0	0	0	0	0	0.0	0.0
2.2.3.5	Outside collaboration (DOE2000, Grid, ...)	0	0	0	0	0	0	0.0	0.0
<b>2.2.4</b>	<b>Software support</b>	<b>1115</b>	<b>0</b>	<b>0</b>	<b>1115</b>	<b>1115</b>	<b>0</b>	<b>7.7</b>	<b>1.0</b>
2.2.4.1	Software librarian	709	0	0	709	709	0	4.9	1.0
2.2.4.2	Software help desk	145	0	0	145	145	0	1.0	0.0
2.2.4.3	Software management tools	0	0	0	0	0	0	0.0	0.0
2.2.4.4	Software distribution tools and infrastructure	0	0	0	0	0	0	0.0	0.0
2.2.4.5	Software documentation tools	0	0	0	0	0	0	0.0	0.0
2.2.4.6	Software QA/QC tools and infrastructure	261	0	0	261	261	0	1.8	0.0
<b>2.2.5</b>	<b>Training</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0.6</b>
2.2.5.1	Training database	0	0	0	0	0	0	0.0	0.0
2.2.5.2	Course planning and organization	0	0	0	0	0	0	0.0	0.0
2.2.5.3	Third party course development	0	0	0	0	0	0	0.0	0.0
2.2.5.4	In house course development	0	0	0	0	0	0	0.0	0.0
2.2.5.5	Training tool development	0	0	0	0	0	0	0.0	0.0
2.2.5.6	New user orientation	0	0	0	0	0	0	0.0	0.0
2.2.5.7	Web presentation and archiving	0	0	0	0	0	0	0.0	0.0

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2.2.6	<b>Data production</b>	0	0	0	0	0	0	0.0	0.0
2.2.6.1	Production coordination and operations	0	0	0	0	0	0	0.0	0.0
2.2.6.2	Production management tools and infrastructure	0	0	0	0	0	0	0.0	0.0
2.2.7	<b>Travel and Material Support</b>	1527	0	0	1527	0	1527	0.0	0.0
2.2.7.1	Travel	1182	0	0	1182	0	1182	0.0	0.0
2.2.7.2	General M&S Support	345	0	0	345	0	345	0.0	0.0